

Application No. 09/651,754

Docket No. 20-0139

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1. (Amended) A transceiver-processor building block for an electronic radio system multifunction slice, the building block comprising:
a plurality of bi-directional transceivers;
a processor coupled to the transceivers;
a local RF control bus inaccessible directly from outside the multifunction slice and coupled between the processor and the transceivers;
a network bus coupled to the processor; and
a network bus connector coupled to the network bus to provide direct accessibility to the network bus from outside the multifunction slice.

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14. (Amended) An electronic radio system multifunction slice for supporting a predetermined number of communication threads, the multifunction slice comprising:
an RF aperture interface;
a plurality of bi-directional transceivers coupled to the RF aperture interface;
a processor coupled to the transceivers;
a local RF control bus inaccessible directly from outside the multifunction slice and coupled between the processor, the transceivers, and the RF aperture interface;
a network bus coupled to the processor;
a network bus connector coupled to the network bus to provide direct accessibility to the network bus from outside the multifunction slice; and

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a backplane interface coupled to the processor, the backplane interface providing
a backplane output and a backplane input.

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19. (Amended) A method for operating a transceiver-processor building
block in an electronic radio system multifunction slice, the method comprising:
providing a plurality of bi-directional transceivers coupled to a processor;
communicating unencrypted data to the processor over a network bus coupled to
the processor, the network bus coupled to a network bus connector providing direct
accessibility to the network bus from outside the multifunction slice;
processing the unencrypted data to form control data; and
communicating the control data to the transceivers over a local RF control bus
between the processor and the transceivers, the local RF control bus inaccessible directly
from outside the multifunction slice.